

AMENDMENTS TO THE CLAIMS

The following listing of claims replaces all prior versions and listings of claims in the present application.

Listing of claims:

1. (Currently Amended) A data distribution system comprising a first terminal having data and a second terminal, wherein the system distributes data configured for the second terminal from the first terminal to the second terminal,

wherein the first terminal comprises:

a data recorder that records data of a plurality of formats;

a data distribution request receiver that receives a distribution request for data in a format configured for the second terminal and that receives a URL, the URL comprising an address at which only capability information regarding a device property, an audio and video coding method, and an input and output of the second terminal is recorded, the URL being transmitted from the second terminal;

a terminal information acquirer that accesses the location defined by the URL and acquires the capability information of the second terminal from the address identified by the URL:

a data selector that selects data in a format configured for the second terminal on the basis of the acquired capability information of the second terminal; and

a data transmitter that transmits the selected data to the second terminal, and

wherein the second terminal comprises:

a terminal information describer that describes the capability information of the second terminal in tree structure;

a transmitter that transmits the capability information of the second terminal, described in tree structure, to a predetermined URL;

a recorder that records the capability information of the second terminal at the URL;

a data distribution requestor that requests the first terminal to distribute data configured for the second terminal and that notifies the first terminal of the URL at which the capability information of the second terminal is recorded; and

a data receiver that receives the data from the first terminal.

2. (Currently Amended) A first terminal in a data distribution system that distributes data configured for a second terminal from the first terminal having the data to the second terminal, the first terminal comprising:

a data recorder that records data of a plurality of formats;

a data distribution request receiver that receives a distribution request for data in a format configured for the second terminal and that receives a URL, the URL comprising an address at which only capability information regarding a device property, an audio and video coding method, and an input and output of the second terminal is recorded, the URL being transmitted from the second terminal;

a terminal information acquirer that accesses the location defined by the URL and acquires the capability information of the second terminal from the address defined by the URL;

a data selector that selects data in a format configured for the second terminal on the basis of the acquired capability information of the second terminal; and

a data transmitter that transmits the selected data to the second terminal.

3. (Currently Amended) A second terminal in a data distribution system that distributes data configured for the second terminal from a first terminal having data to the second terminal, the second terminal comprising:

- a terminal information describer that describes capability information of the second terminal in tree structure;

- a transmitter that transmits the capability information of the second terminal, described in tree structure, to a predetermined URL, the URL comprising an address configured to record only the capability information regarding a device property, an audio and video coding method, and an input and output of the second terminal;

- a recorder that records the capability information of the second terminal at the URL;

- a data distribution requester that requests the first terminal to distribute data configured for the second terminal and that notifies the first terminal of the URL at which the capability information of the second terminal is recorded; and

- a data receiver that receives the data from the first terminal.

4. (Currently Amended) A terminal that, in a data distribution system that distributes data configured for a second terminal, from a first terminal having data to the second terminal, the terminal comprising a location defined by a URL which can be accessed by the first and second terminals and records only capability information of the second terminal, the terminal comprising:

- a terminal information receiver that receives a tree structure description of the capability information of the second terminal from the second terminal;

- a terminal information recorder that records information of the second terminal; and

a terminal information transmitter that transmits the information of the second terminal to the first terminal in response to a distribution request for the capability information of the second terminal, the distribution request being received from the first terminal,

wherein the URL comprises an address at which only capability information regarding a device property, an audio and video coding method, and an input and output of the second terminal is recorded.

5. (Currently Amended) A data request method in a second terminal in a data distribution system that distributes data, configured for the second terminal, from a first terminal having data to the second terminal, the method comprising:

constructing the second terminal;

describing capability information of the second terminal in a tree structure;

transmitting the capability information regarding a device property, an audio and video coding method, and an input and output of the second terminal described in the tree structure to a location defined by a predetermined URL to record only the capability information at the URL;

requesting the first terminal to distribute data configured for the second terminal and notifying the first terminal of the URL at which the capability informatics of the second terminal is recorded; and

receiving data from the first terminal.

6. (Previously Presented) The data request method according to claim 5, wherein as the information of the second terminal described in tree structure, information related to characteristics of the second terminal, information related to an AV coding capability of the second terminal, and items of information related to a multimedia input/output of the second terminal are branched and described as branch information.

7. (Previously Presented) The data request method according to claim 5, comprising:

selecting some branch information in tree structure of the capability information of the second terminal; and

notifying the first terminal of a URL related to the selected branch information to request the first terminal to distribute data to the second terminal.

8. (Previously Presented) The data request method according to claim 5, wherein constructing the second terminal comprises:

constructing the second terminal by selecting a CPU, an OS, a memory, an output, and a VM (virtual machine) with respect to general characteristics;

constructing the second terminal by selecting USB, BlueTooth, wireless802, and a serial or parallel data I/O (data input/output);

constructing the second terminal by selecting, as a storage medium, at least one of a MultiMedia card (MMC), a Compact Flash (registered trademark), a Secure Disk (SD), a MemoryStick (MS), a hard disk (HD), a DVD, a VCD, a Zip disk, and a flexible disk;

constructing the second terminal by selecting, as a supporting tool, at least one of a global positioning system (GPS), a Browser, Intellectual Property Management and Protection tools (IPMP tools), an RELtool (Rights Expression Language Tool), and a meta data tool;

constructing the second terminal according to a predetermined AV decoding format;

constructing the second terminal according to a predetermined image format supporting;

constructing the second terminal according to a predetermined text format supporting;

constructing the second terminal according to a predetermined system format supporting;

constructing the second terminal by providing a predetermined audio output for reproducing sound or voice;

constructing the second terminal by providing a predetermined video output for displaying a video or an image; and

constructing the second terminal by providing a predetermined text output for displaying a text.

9. (Previously Presented) The data request method according to claim 8, wherein the constructing of the second terminal comprises:

constructing the second terminal according to a predetermined AV encoding format;

constructing the second terminal by providing a predetermined audio input for acquiring sound or voice;

constructing the second terminal by providing a predetermined video input for acquiring a video or an image; and

constructing the second terminal by providing a predetermined text input for inputting a text.

10. (Previously Presented) The data request method according to claim 8, wherein constructing the second terminal according to the predetermined AV decoding format further comprises:

selecting an audio decoding supporting format;

selecting a video decoding supporting format;

determining a bit rate for audio decoding;

determining a bit rate for video decoding;

determining the maximum bit rate for audio decoding in coding at a variable bit rate;

determining the maximum bit rate for video coding in coding at a variable bit rate;

determining an average bit rate for audio decoding in coding at a variable bit rate;

determining an average bit rate for video decoding in coding at a variable bit rate; and
determining a limited buffer size for audio or video decoding.

11. (Previously Presented) The data request method according to claim 9, wherein constructing the second terminal according to the predetermined AV encoding format further comprises:

selecting an audio encoding supporting format;
selecting a video encoding supporting format;
determining a bit rate for audio encoding;
determining a bit rate for video encoding;
determining the maximum bit rate for audio encoding in coding at a variable bit rate;
determining the maximum bit rate for video encoding in coding at a variable bit rate;
determining an average bit rate for audio encoding in coding at a variable bit rate;
determining an average bit rate for video encoding in coding at a variable bit rate; and
determining a limited buffer size for audio or video encoding.

12. (Previously Presented) The data request method according to claim 8, wherein constructing the second terminal according to the predetermined system format further comprises:

selecting MPEG2 system format supporting;
selecting MPEG4 system format supporting;
selecting predetermined file format supporting; and
selecting predetermined communication protocol supporting.

13. (Previously Presented) The data request method according to claim 8, wherein selecting the MPEG2 system format supporting further comprises:

determining MPEG2 transport system (TS) format supporting; and

determining MPEG2 program system (PS) format supporting.

14. (Previously Presented) The data request method according to claim 12, wherein selecting the MPEG4 system format supporting further comprises:

determining format supporting of MPEG4 system part 1;

determining format supporting of MPEG4 system part 11;

determining format supporting of MPEG4 system part 12;

determining format supporting of MPEG4 system part 13;

determining format supporting of MPEG4 system part 14;

determining format supporting of MPEG4 system part 15; and

determining format supporting of MPEG4 system part 16.

15. (Previously Presented) The data request method according to claim 12, wherein selecting the predetermined file format supporting further comprises:

determining MP4 file format supporting;

determining QuickTime file format supporting;

determining AVi file format supporting;

determining MP2 file format supporting;

determining MP21 file format supporting;

determining ASF file format supporting;

determining another file format used in another area; and

determining a future file format.

16. (Previously Presented) The data request method according to claim 12, wherein selecting the predetermined communication protocol further comprises:

determining RTP protocol supporting;

determining H.323 protocol supporting;

determining SIP protocol supporting;

determining HTTP protocol supporting;

determining TCP/IP protocol supporting; and

determining another protocol supporting.

17. (Currently Amended) A data distribution method for a first terminal in a data distribution system that distributes data configured for a second terminal, from a first terminal having data, to the second terminal, the method comprising:

receiving a distribution request for data configured for the second terminal from the second terminal and receiving a URL from the second terminal, the URL comprising an address at which only capability information regarding a device property, an audio and video coding method, and an input and output of the second terminal is recorded;

acquiring capability information of the second terminal described in a tree structure from the location defined by the URL;

selecting data configured for the second terminal on the basis of the acquired capability information; and

transmitting the selected data to the second terminal.

18. (Previously Presented) The data distribution method according to claim 17, wherein as the information of the second terminal described in tree structure, information related to characteristics of the second terminal, information related to an AV coding capability of the second terminal, and items of information related to a multimedia input/output of the second terminal are branched and described as branch information.

19. (Previously Presented) The data distribution method according to claim 17, wherein selecting data configured for the second terminal on the basis of the acquired information in the first terminal comprises:

 parsing the capability information of the second terminal described in tree structure and obtained from the URL;

 selecting data configured for the second terminal on the basis of branch information described in tree structure and obtained by the parsing.